

03050208-060

(Black Creek)

General Description

Watershed 03050208-060 is located in Allendale and Hampton Counties and consists primarily of **Black Creek** and its tributaries. The watershed occupies 40,378 acres of the Lower Coastal Plain region of South Carolina. The predominant soil types consist of an association of the Bonneau-Rains-Norfolk-Lynchburg series. The erodibility of the soil (K) averages 0.15, and the slope of the terrain averages 1%, with a range of 0-6%. Land use/land cover in the watershed includes 42.6% agricultural land, 27.6% forested land, 22.8% forested wetland, 4.2% barren land, 1.5% urban land, 0.9% water, and 0.4% nonforested wetland.

Black Creek accepts drainage from Filly Branch, Hurricane Branch and Trowells Mill Branch before flowing through Lake George Warren (Brier Creek) and into the Coosawhatchie River. There are a total of 39.0 stream miles and 435.3 acres of lake waters in this watershed, all classified FW.

Surface Water Quality

<u>Station #</u>	<u>Type</u>	<u>Class</u>	<u>Description</u>
CL-062	W	FW	LAKE WARREN IN FOREBAY NEAR DAM
CSTL-075	S	FW	LAKE WARREN, BLACK CREEK ARM, AT S-25-41, 5MI SW OF HAMPTON

Lake George Warren - There are two monitoring sites along Lake Warren. In the Black Creek area of the lake (**CSTL-075**), aquatic life uses are fully supported. This is a blackwater system, characterized by naturally low pH and dissolved oxygen concentrations. Although dissolved oxygen and pH excursions occurred, they were typical of values seen in blackwater systems and are considered natural, not standards violations. There is a significant increasing trend in pH. A significant decreasing trend in five-day biochemical oxygen demand suggests improving conditions for this parameter. Recreational uses are fully supported at this site. At the downlake site (**CL-062**), aquatic life and recreational uses are fully supported. Although dissolved oxygen and fecal coliform bacteria excursions occurred, due to the small number of samples, uses are considered to be fully supported at this site.

Nonpoint Source Management Program

Land Disposal Activities

Landfill Facilities

<i>LANDFILL NAME</i> <i>FACILITY TYPE</i>	<i>PERMIT #</i> <i>STATUS</i>
HAMPTON COUNTY LF, PHASE I,II,III DOMESTIC	251001-1101 INACTIVE
HAMPTON COUNTY LF, PHASE II DOMESTIC	DWP-119, DWP-006, DWP-104 INACTIVE
HAMPTON COUNTY C&D LANDFILL C & D	251001-1201 ACTIVE

HAMPTON COUNTY C&D LANDFILL
C & D

CWP-046
INACTIVE

Land Application Sites

LAND APPLICATION SYSTEM
FACILITY NAME

ND#
TYPE

SPRAYFIELD
TOWN OF ESTILL

ND0069701
DOMESTIC

Mining Activities

MINING COMPANY
MINE NAME

PERMIT #
MINERAL

J.R. CONSTRUCTION COMPANY
J.R. WILSON CONSTRUCTION

1028-49
SAND, SAND/CLAY

Growth Potential

There is a low potential for growth in this watershed, which contains the Towns of Luray and Estill. Slight growth is projected associated with the Federal Correctional Institution.